This document (*California Protocol*) lists questions that <u>supplement</u> those appearing in the Environmental Management System (EMS) protocols developed by the University of North Carolina in conjunction with other stakeholders. The questions in this document are to be completed for each of the companies/organizations participating in the California Environmental Protection Agency's (Cal/EPA) Innovation Initiative EMS Pilot Project.

To address the requirements of Assembly Bill 1102 (Stats. 99, Ch. 65), the information collected with this *California Protocol* will be used in conjunction with data collected using the University of North Carolina protocols. Specifically, Public Resources Code Section 71045 et seq. authorizes the Cal/EPA to conduct pilot projects to determine whether and how the use of an EMS:

- increases public health and environmental protection; and
- provides better public information than existing regulatory requirements**.**

This *California Protocol* is expected to be completed one time for each of the pilot project participants. Further, it is expected that this protocol will be completed after the pilot has begun to implement its EMS.

1.0 Emergency Preparedness
1.1. How is emergency preparedness (e.g. Hazardous Material Business Plan) integrated into your EMS?
_____
_____
_____

1.2. How has your EMS improved your emergency preparedness program and how do you measure these improvements?
_____
_____
_____

1.3. In what ways, if any, does your emergency preparedness program exceed regulatory requirements?
_____
_____
_____

1.4. Since implementing your EMS, have you experienced a decrease in emergency incidents that required a response from the fire department or hazardous materials unit? Please report number of incidents for baseline and post EMS years.

_____
_____
_____

    Baseline (3 years prior to EMS): year 1_____, year 2 _____, year 3 _____
    Post EMS: year 1_____, year 2 _____, year 3 _____

2.0. Environmental Performance

2.1. Please identify any environmental performance objectives and targets that relate to regulated aspects or impacts and the extent to which they exceed regulatory requirements.
.

_____
_____
_____

2.2. Please identify any environmental performance objectives and targets that relate to non-regulated aspects.

_____
_____
_____

2.3. For regulated aspects or impacts, please identify any change in environmental performance (emissions, discharge, waste) and/or practices (monitoring, training, and procedures) resulting from your EMS.

_____
_____
_____

2.4. For non-regulated aspects or impacts, please identify changes in environmental impacts (emissions, discharge, waste) and practices (monitoring, training, and procedures) resulting from your EMS.

_____
_____
_____

3.0. Pollution Prevention

3.1 How did implementation of the EMS affect pollution prevention activities at your facility?
_____
_____
_____

3.2. What pollution prevention activities were in place prior to implementing your EMS?
_____
_____
_____

3.3. What motivated you to establish your original pollution prevention activities?
_____
_____
_____

3.4. Describe any mechanisms you have developed for sharing pollution prevention techniques or other benefits of your EMS with suppliers, customers, the community, or others and whether these are a result of your EMS.

_____
_____
_____

4.0. Continual Improvement

4.1. How do you measure continual improvement? (suggests add: in environmental performance)
Please list management system improvement measures:

_____
_____
_____

Please list environmental performance improvement measures:

_____
_____
_____

4.2. Please describe this process and the types of changes that have been identified.

_____
_____
_____

4.3. What type of continual improvement process existed prior to implementing your EMS?

_____
_____
_____

4.4. If improvement is not shown in a designated area, what is the response?

_____
_____
_____

5.0. Employee Involvement

5.1. Please describe changes in employee awareness and involvement in environmental improvements since implementing your EMS. How do you measure changes in employee awareness?

_____
_____
_____

5.2. What information is shared with employees (audit results, root cause analysis, etc.)?

_____
_____
_____

5.3. How is the information shared? (e.g., newsletters, web page).

_____
_____
_____

6.0. Regulatory Innovations

6.1. Please identify any opportunities that an EMS presents for improving the regulatory process (e.g., consolidated information reporting).

_____
_____
_____

6.2. Please describe any regulatory barriers for improving environmental performance.

_____
_____
_____

6.3. Please provide any suggestions that may reduce or remove regulatory barriers for improving environmental performance.

_____
_____
_____

7.0. Supply Chain

7.1. If you encourage your suppliers to use EMSs, do you verify their EMS activities and if so, how?

_____
_____
_____

7.2. Please describe whether and how others in your supply chain, or your customers, influence your company in regards to implementation of an EMS.

_____
_____
_____

7.3. Please describe how you have incorporated other environmentally preferable measures into your supply chain (e.g., green purchasing, education or mentoring).

_____
_____
_____

8.0. Quantity of Information

8.1. What information about your EMS is available to the general public?

☐ All records are made available.

☐ Specific Information is made available. Please identify.

    ☐ policy statement

    ☐ environmental aspects

    ☐ environmental impacts

    ☐ objectives and targets

    ☐ operation and procedures

    ☐ compliance information

    ☐ hazardous waste generation data

    ☐ air emission data

    ☐ water discharge data

    ☐ resource consumption data: energy, water, raw materials

    ☐ solid waste generation data

    ☐ other environmental information. Please specify:

    _____

    _____

    _____

8.2. Where is information on your EMS available to the public?

    ☐ web site

    ☐ public relations department

    ☐ newsletter

    ☐ annual report

    ☐ other, please describe

    _____

    _____

    _____

8.3. What environmental information do you make available to the public that is required to be reported to environmental agencies? Where is this information available?

_____

_____

_____

8.4. What environmental information do you make available to the public that is not required to be reported to environmental agencies? Where is this information available?

_____

_____

_____

8.5. How has your EMS changed the way you communicate with the public or public agencies on environmental issues?

_____

_____

_____

8.6. How has the sharing of environmental information changed the way your customers view you?

_____
_____
_____

8.7. What are your regulatory requirements for sharing environmental information with the public (Prop. 65, Community Right to Know, Air Toxic "Hot Spots", etc.)?

_____
_____
_____

8.8. How has your participation in the Cal/EPA EMS Working Groups, or other community forums, affected you EMS and the way in which you view stakeholder participation?

_____
_____
_____
_____

9.0. Negative Consequences of an EMS

9.1. In your experience, what are some of the disadvantages of EMS implementation?

_____
_____
_____

9.2. Has implementing an EMS caused any negative consequences in environmental performance?

_____
_____
_____

9.3. Has the implementation of an EMS adversely impacted your organization's economic performance? If so, how?

_____
_____
_____

10.0 Positive Consequences of an EMS

10.1. Please describe any unexpected, positive results from implementing your EMS?

_____
_____
_____